

AMENDMENTS TO THE CLAIMS:

Kindly cancel claim 3 without prejudice. Please amend claim 2 and add new claims 6 and 7 as follows.

The present listing of claims will replace all prior versions, and listings, of claims in the present application.

Listing of Claims:

Claim 1 (Cancelled)

Claim 2 (Currently Amended): A method for manufacturing a supercharger rotor by casting a profile portion of a supercharger rotor to surround~~and~~ a shaft penetrating the profile portion~~same~~, comprising the steps of:

(A) first cutting~~processing~~ a left and right helical cross portion on a surface of the shaft that connect~~sed~~ to the profile portion, wherein the left and right helical cross portion includes a right handed screw helical groove and a left handed screw helical groove, and these grooves cross each other; and

(B) casting the profile portion around the shaft in die-casting.

Claims 3-5 are cancelled.

Claim 6 (NEW): A method according to claim 1, wherein in the first cutting, a plurality of cutting tools are used in parallel in lathe work, and multiple thread screws are simultaneously cut.

Claim 7 (NEW): A method according to claim 6, wherein casting the profile portion includes surrounding the cross portion of the shaft with a metal mold so the cross portion is disposed inside a cavity of the mold, and attaching a helical core inside the cavity of the mold so the profile portion cast includes a hollow portion formed in the profile portion.